

METHOD AND APPARATUS FOR EXTRACTING DATA FROM AN OVERSAMPLED BIT STREAM

ABSTRACT OF THE DISCLOSURE

Apparatus and method extract data from a data stream. The method includes oversampling the data stream, performing first processing on adjacent bits of the oversampled data stream, performing second processing the results of the first processing, comparing the results of the second processing, and selecting an alignment of data based on the comparison. The method can be efficiently implemented using accumulators, delay elements, and XOR elements. In this manner, data may be extracted from the data stream despite a varying or unknown phase or duty cycle, or in the presence of jitter.

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